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A
Dissertation
on
Hydrocephalus
by
Warner Briscoe

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Dissertation &c

In looking over the Catalogue of diseases to which the human family daily under themselves liable, I see none upon which the pen of infirmity has not been exercised; and therefore it is with some diffidence I engage in the topic of this dissertation; not however, with the idea of forwarding any new theory with respect to the disease or condemn the practice which now exists, but merely to point out the most popular opinions entertained of the disease and the treatment which has been found most successful in retarding the progress of it.

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In reflecting upon the insidious nature of this disease as well as the difficulty we find in effecting a cure, none indeed I think should commend the attention of the physician more than the one now under consideration. It is supposed to attack Cholera chiefly upon the age of ten years. That this age is particularly liable to an attack of the disease, experience and observation has confirmed; but inevitably we have on recent cases, of water being discovered in the brain after this period, which appears to prove in some measure, the disease should not be restricted to that period alone.

Hydrocephalus has been divided into external and internal. The former little denoting a collection of water over the pia mater upon the surface of the brain; the latter

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signifying an effusion of fluid into
 the ventricles. Internal Hydrocephalus has
 always been esteemed a fatal as well as
 a most distressing disease. From its pre-
 cian nature it appears it did not escape
 the observation of the ancients; ^{and} although it
 was not unknown to them, yet it seems
 they were not acquainted with the real nat-
 ure of it, although frequent occurrence
 of the disease took place. The great obstacle,
 however, which prevented itself in their path
 of improvement was dissection. The appro-
 priation which is now met with for open-
 ing dead bodies, points out our progress
 to a more enlightened period, compared with
 the superstitious notions entertained by them.
 With this consent the modern physicians
 are furnished with opportunities for col-
 lecting that knowledge which was so much

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requires to throw light upon the true nature of the disease.

Cases of this disease are early recorded. The anonymous Magistralis, was probably the first to have mentioned the complaint to be seated in the ventricles, though it has been spoken of by Boerhaave, Celsus and some others; yet there appears to be no very accurate account given of it until Whist commenced the subject.

Pyrocephalus sometimes makes its attack so suddenly as to deprive the patient of existence in a very short time, though it more generally comes on gradually and in such cases the patient suffers longer several weeks before life is extinguished. The real nature as well as the seat of the disease is of such difficult distinction, from its strong resemblance to an irregular Remittent

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or from similarity of symptoms of
 difficult ventilation, as well as some
 affections of the Lungs, as to render
 it almost impossible to distinguish
 it until somewhat advanced. There-
 fore we should never be led astray by
 the garb which it assumes, but should
 always suspect the existence of the
 disease and attack it with prompt
 means, otherwise delay would be dangerous,
 and we should be completely failed in at-
 tempting a cure. As has been hinted above
 we should always suspect the existence
 of inflammation or an engorgement of the
 vessels of the Brain, when such symptoms
 present, as would make us to decide
 upon the probability of the nature of
 the Case. Big flushed face, dilation
 of the pupils, and aversion to light,

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stupor, sudden interruption of sleep with
 screaming, hot skin, prematurely quick
 and irregular pulses &c. When these
 symptoms occur we may justly conclude
 upon the existence of the disease with
 tolerable safety. When children, however,
 have arrived at that age, which enables
 them to describe their feelings, they will
 invariably complain of their head and
 neck, having considerable fever, with
 nausea & vomiting; though any titillation
 is brought up by the effort. If the dis-
 ease continues its progress for some
 days, growings and disinclination to motion
 become the most prominent symptoms.
 If the disease be not relieved it now
 assumes a different form, from the
 escaped water into the ventricles of
 the brain, which may take place

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either gradually or suddenly.

The engorged vessels which supply the brain, being now in some measure relieved from distention by the effusion of lymph, the attendant symptoms remit for a shorter or longer time, when they return with greater violence and frustrate all hopes, which were entertained for a recovery. On the ventricles becoming distended the face assumes its old appearance, while the pupils of the eye become greatly enlarged, increasing as the ventricles become more and more distended. Strabismus and an insensibility to light, as well as a paralytic affection of one side are more generally attendants on this stage of the disease, while stertorous breathing

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with Convulsion soon finishes
the little suffering life. The pulse
in this stage of the disease become
so quick, it is almost impossible to
enumerate it, from the great irritation
produced by the effluent of blood into
the Cavities of the Brain. The three
stages into which this disease has
been divided may be characterized by
the following symptoms.

1st Stage — This stage of the disease may
be known by a frequent irregular full
pulse which seldom or never fails
to accompany the disease in its com-
mencement. Pain in the head, with
contracted pupils, white tongue and
dry skin &c.

2^d Stage — This is also well marked there
is a remission of pain and an

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abatement of febrile symptoms, the pupils resume their natural appearance, nausea with no desire what ever to move or be raised, the latter proving very distressing and harassing to the patient.

3^d Stage — This, as well as the two preceding, is noted well marked by a return of almost all the symptoms which characterised the first. viz pain in the head, thirst, pulse preternaturally frequent, hot skin, white tongue &c.

The great distress which the stimulus of light occasions in the first stage of the disease, and the total insensibility to its impression in the second, appears to arise from very opposite conditions of the brain at the time of their occurrence.

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The inability to bear the stimulus of light in the first stage of the disease, we may conclude to arise from the presence of inflammation peculiar to the first stage of it. And in the second from the effusion of lymph into the ventricles and consequently Attention and Compulsion.

Proximate cause.

In considering the causes of this disease we might enumerate those which have a tendency to determine a greater flow of blood to the brain than to other parts of the system, as continued fits of vomiting, which by soliciting a determination to the vessels of that organ as to give rise to the disease.

With respect to the proximate cause of this disease various opinions have been entertained by different men, and indeed men of excellent and worth have exercised their ingenuity more to retard than to advance the knowledge upon this subject. It has been supposed by some to be an affection arising from some disease, particularly fever, blueness or from the brain sympathizing with some other part of the body.

"The inactivity of the absorbents," of Darwin have been formerly with no little ingenuity as the cause of the disease. Though they may exist as an effect, yet we can not believe in their primary existence.

Scabidity, as brought forward by the ingenious White has its advocates. It is the opinion of the great Boerhaave, it belongs

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to the stage of inflammation and to retard its progress, bleeding is the first remedy which presents itself, and one that should not be used sparingly. Previous to the aqueous accumulation says Wislizenus, in a great many Cases, it is not in abscess, congestion and slight inflammation are its precursors.

It is the opinion of the great & illustrious Rush "instead of its being considered as an idiopathic disease it should be looked upon as an effect of inflammation or congestion in the brain". It appears, he says, "this disease is in its first stage the effect of causes which excite a less degree of that inflammation which produces phrenitis; and its

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second stage is a less degree of
that effusion which causes serous
apoplexy in adults.

From the whole it would appear, the
most popular opinion entertained by
medical writers upon this subject is,
in believing it to be a disease which
has its origin in a more or less degree
of inflammation of its coverings, or the or-
gan itself with a more or less accumula-
tion of blood in its vessels; which termi-
nates sooner or later in an extravas-
ion of water previous to the extinction
of life. Hence we may consider it an
inflammatory or congested state of the parts
in its commencement and effusion does
not primarily exist; but is the consequence
of such congestion or inflammation.
Although this organ or its coverings

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are affected primarily more generally,
 it not in all cases, by inflammation or
 Congestion; yet in doubt not the probability
 of the disease arising from general
 activity, and in this way from
 the relaxed state of the vessels effusion
 may take place; and as this is so
 rarely the case I think we might dis-
 miss the subject without farther
 notice.

Treatment.

From the seat and nature of
 the disease, very early in the
 employment of the most prompt
 and active means to arrest its course,
 in the incipient stage. To accomplish
 this desirable end we should lose

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no time in having recourse to

Blood-letting

The necessity of this remedy is very obvious and in the employment of it we should be guided by the age of the patient.

When the pulse is marked by an increased or inflammatory action, we should never neglect performing the operation, by which, we unload the congested state of the vessel of the brain, as well as diminish arterial action. Drawing blood from the temporal artery is advised by some, in preference to taking it from the arm. The superior benefit which we derive from it, do not I think warrant us in giving it that superiority which has been assigned it by some; yet the remedy

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under some circumstances should
 not be neglected. Topical bleeding is
 also of much utility and should
 not be overlooked. In abstracting
 blood, and in the repetition of it,
 we should be guided by the ap-
 - pearances the disease presents; but
 as long as there are any symptoms
 of local congestion or inflammation,
 we should never neglect making
 use of the remedy and to carry it
 as far as circumstances will admit.
 But to make use of this remedy
 when the disease has arisen from
 general debility, would be highly re-
 - prehensible, as also in the third
 stage of the disease. After we have
 had recourse to the above remedy
 we should not neglect the use of

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Purgatives

These become eminently useful where there are indications pointing out a fouling of the alimentary Canal, as well as of great importance in diminishing the determination to the Brain. To fulfil these indications, Calomel either alone or combined with Salap. has been highly extolled. The Cremor Tartar. combined with some Aromatic Cathartic has attained no little reputation in this disease, from its superior efficacy. The stools, which are produced are generally of a dark green colour, resembling in some measure oil, and of a cadaverous smell. By this class of medicine, we are enabled to evacuate the bowels and

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have the way for other remedies.

Blisters

These become necessary when the above remedies have been too sparingly employed or when they have proved totally ineffectual. The disease taking on a different aspect, it is requisite that we should make a change in our remedies and endeavour to rouse into action the power of the absorbents to take up the effused fluid which had been thrown out by the exhalants, and with this view we apply vesicating applications to the head, neck and extremities. The use of blisters, however, are not restricted to this stage alone, but may be employed

in either of the stages and from the great discharge which they occasion from the head may be used with much advantage, when applied in the course of the sutures as has of late been advised. When these remedies have been employed it has been advised to keep up the discharge by mercurial droppings.

Cold Applications

In the use of these very practitioners now agree and indeed they have gained no little celebrity. Vinegar & water, ice water or ice alone, are these more common only in use. These applications should be so used as not to interfere with the medicating applications. I may here mention without entering into a separate

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detail of the propriety of having recourse
 to Antimonials with refrigerants as the Patients
 of Phlog. &c when there exists great thirst
 with no inconsiderable heat and other sym-
 ptoms of fever. When the disease has run
 on to the second stage and has a natural
 consequence of inflammation in this organ,
 effusion has taken place, we should en-
 deavour to procure such an excitement
 of the vessels as to occasion a resorption
 of the effused fluid. With this view then
 we have recourse to Mercury.

Mercury

This is a remedy in which much
 confidence has been placed, some indeed
 have gone so far as to consider it almost
 as a specific, others again have not spoken

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so favourably of it. The remedy however, is one on which much reliance can be placed; either alone, or as some prefer it, combined with some drastic purgative. It may be employed as a purgative or an alterative. To derive the best effects from its use, we should not neglect combining with it some of the Astringents. As a Salivation is in young Children of very great difficulty we may use it both internally and externally and upon the authority of Drs. Char-michael, Smith, Hunter, Weygall and others we may expect to derive much advantage from its use. Though whatever arguments have been produced against its indiscriminate use, yet we have on record cases, when thus employed the life of the patient has been saved.

It is with such difficulty we can procure a purgation in patients of this age that it requires a very liberal use of the remedy before it can be effected, and then we more frequently fail. It has been known to the extent of seven or eight and even to nine pounds before we have derived that benefit we expect, but its unscrupulous use should not lead us to overlook or neglect it.

Digitalis Purpurea

This remedy appears to have been employed though unsuccessfully, in this disease by Forsterius.

The manner in which it acts in effecting a cure is, by its proving no doubt a diuretic as also by its proving in diminishing arterial

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action. Although this medicine has proved unsuccessful in the hands of the above Eites gentleman, yet nevertheless it has of late succeeded in affecting cures, and therefore should not be overlooked and had recourse to when other remedies have failed.

Barks

From the employment of this class of medicines we can promise ourselves but little, and that is, in the last stage of the disease, when, if the system requires it, may be assisted by the use of Mercury.

Opium

This is an article which claims

no small share of our attention. It has been employed with great advantage in this disease, particularly when there exists much pain accompanied with considerable spasmodic affection. It has been employed largely by Percival, avoiding the use of it, he says, when Coma exists. We may expect much from its Combination with digitalis and Calomel as proven by the experience of eminent practitioners.

Erthines

Of this class we can say but little. Those most usually employed are the White Helicon and Asarabacca, which by keeping up a discharge from the nose have been supposed to be of some utility in the disease.

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Caustic

This is a remedy which has been highly extolled and have been practiced by some to the detriment. Whether any great advantage is to be derived from its employment over that of blistering I shall not take it upon myself to decide. It is no doubt, from its being such a powerful stimulus or from its proving, more permanent in its effects, of much advantage. The remedy may also be used as a prevention.

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Conclusions

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